



US 20120314399A1

(19) **United States**(12) **Patent Application Publication****Bohn et al.**(10) **Pub. No.: US 2012/0314399 A1**(43) **Pub. Date: Dec. 13, 2012**(54) **FLEXIBLE DISPLAY FOLDABLE ASSEMBLY**(52) **U.S. Cl. 362/97.1; 361/679.01; 29/592.1**(75) Inventors: **David D. Bohn**, Fort Collins, WA (US); **Paul M. O'Brien**, Sammamish, CA (US)(57) **ABSTRACT**(73) Assignee: **Microsoft Corporation**, Redmond, WA (US)(21) Appl. No.: **13/154,786**(22) Filed: **Jun. 7, 2011****Publication Classification**(51) **Int. Cl.****G02F 1/13357** (2006.01)**H05K 13/00** (2006.01)**H05K 5/00** (2006.01)

In embodiments of a flexible display foldable assembly, a foldable assembly includes first flanges integrated in a first housing part of a foldable electronic device. The foldable electronic device includes a flexible display, and the first housing part is integrated with a first section of the flexible display. The foldable assembly also includes second flanges integrated in a second housing part of the foldable electronic device, and the second housing part is integrated with a second section of the flexible display. The second flanges are implemented to fold-interlock with the first flanges to form a bend radius of the flexible display around the first and second flanges in a closed position of the foldable electronic device. The first and second flanges are also implemented to support the flexible display in the closed position of the foldable electronic device.

